

10/520333

**RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/520,333

Source: Py/10

Date Processed by STIC: 1/13/05

***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 01/13/2005

PATENT APPLICATION: US/10/520,333

TIME: 17:18:01

Input Set : A:\082368-002100US.txt

Output Set: N:\CRF4\01132005\J520333.raw

```

4 <110> APPLICANT: The Kitasato Institute
5     Motokawa, Kenji
6     Kusuvara, Hajime
7     Koyama, Hiroyuki
8     Hohdatsu, Tsutomu
9     Arai, Setsuo
11 <120> TITLE OF INVENTION: FELINE INFECTIOUS PERITONITIS VACCINE
14 <130> FILE REFERENCE: 082368-002100US
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/520,333
C--> 16 <141> CURRENT FILING DATE: 2005-01-04
16 <150> PRIOR APPLICATION NUMBER: PCT/JP03/08524
17 <151> PRIOR FILING DATE: 2003-07-04
19 <150> PRIOR APPLICATION NUMBER: JP 2002-196290
20 <151> PRIOR FILING DATE: 2002-07-04
22 <160> NUMBER OF SEQ ID NOS: 8
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 1134
28 <212> TYPE: DNA
29 <213> ORGANISM: Feline infectious peritonitis virus
31 <400> SEQUENCE: 1
32 atggccacac agggacaacg cgtcaactgg ggagatgaac cttccaaaag acgtgatcgt 60
33 tctaactctc gtggtcggaa gaataataat atacctcttt cattcttcaa cccaccacc 120
34 ctogaacaag gagctaaatt ttggtatgta tgtccgagag actttgttcc caagggaata 180
35 ggtaataaag atcaacaaat tgggtattgg aacagacagg cgcgctttcg cattgtcaag 240
36 ggtcagcgta aggaactccc tgagagatgg tttttctatt tcttaggtac aggacctcat 300
37 gctgatgcta aatttaaaga taagattgat ggagtcttct gggttgcaaa ggatgggtgcc 360
38 atgaacaagc caacatcact tggcactcgt ggaaccaaca atgaatccga accattgaga 420
39 tttgatggta agataccacc acaattccag cttgaagtaa accgttctag gaataattca 480
40 aggtctgggt ctcagtctag atctggctca agaaacaggt ctcaatccag gggaagacaa 540
41 caatccaata accagaatac taatgttgag gatacaattg tagctgtgct tcagaaatta 600
42 ggtgttactg acaagcaaag gtcacgttct aaatctagag accgtagtga ctctaaatct 660
43 agagacacaa cacctaaaaa cgccaacaaa cacacctgga agaaaactgc aggtaagggt 720
44 gatgtgacaa atttctttgg tgctagaagt gcttcgggta actttgggtga tagtgatctc 780
45 gttgccaatg gtaacgctgc caaatgctac cctcagatag ccgaatgcgt tccatcagta 840
46 tctagcgtgc tcttcggtag tcaatgggtcc gctgaagaag ctggagatca agtgaaagtc 900
47 acacttactc acacctacta cctgccccaaa ggtgatgcca aaaccagtca attcctagaa 960
48 cagattgacg cttacaagcg cccttcacaa gtagctaagg aacagaggaa accaaagcct 1020
49 cgctctaagt ctgctgataa gaagcctgag gaattgtctg taactcttgt agaggcatac 1080
50 acagatgtgt ttgatgacac acaggttgag atgattgatg aggttacgaa ctaa 1134
52 <210> SEQ ID NO: 2
53 <211> LENGTH: 377
54 <212> TYPE: PRT

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55 <213> ORGANISM: Feline infectious peritonitis virus
57 <400> SEQUENCE: 2
58 Met Ala Thr Gln Gly Gln Arg Val Asn Trp Gly Asp Glu Pro Ser Lys
59 1 5 10 15
60 Arg Arg Asp Arg Ser Asn Ser Arg Gly Arg Lys Asn Asn Asn Ile Pro
61 20 25 30
62 Leu Ser Phe Phe Asn Pro Thr Thr Leu Glu Gln Gly Ala Lys Phe Trp
63 35 40 45
64 Tyr Val Cys Pro Arg Asp Phe Val Pro Lys Gly Ile Gly Asn Lys Asp
65 50 55 60
66 Gln Gln Ile Gly Tyr Trp Asn Arg Gln Ala Arg Phe Arg Ile Val Lys
67 65 70 75 80
68 Gly Gln Arg Lys Glu Leu Pro Glu Arg Trp Phe Phe Tyr Phe Leu Gly
69 85 90 95
70 Thr Gly Pro His Ala Asp Ala Lys Phe Lys Asp Lys Ile Asp Gly Val
71 100 105 110
72 Phe Trp Val Ala Lys Asp Gly Ala Met Asn Lys Pro Thr Ser Leu Gly
73 115 120 125
74 Thr Arg Gly Thr Asn Asn Glu Ser Glu Pro Leu Arg Phe Asp Gly Lys
75 130 135 140
76 Ile Pro Pro Gln Phe Gln Leu Glu Val Asn Arg Ser Arg Asn Asn Ser
77 145 150 155 160
78 Arg Ser Gly Ser Gln Ser Arg Ser Gly Ser Arg Asn Arg Ser Gln Ser
79 165 170 175
80 Arg Gly Arg Gln Gln Ser Asn Asn Gln Asn Thr Asn Val Glu Asp Thr
81 180 185 190
82 Ile Val Ala Val Leu Gln Lys Leu Gly Val Thr Asp Lys Gln Arg Ser
83 195 200 205
84 Arg Ser Lys Ser Arg Asp Arg Ser Asp Ser Lys Ser Arg Asp Thr Thr
85 210 215 220
86 Pro Lys Asn Ala Asn Lys His Thr Trp Lys Lys Thr Ala Gly Lys Gly
87 225 230 235 240
88 Asp Val Thr Asn Phe Phe Gly Ala Arg Ser Ala Ser Ala Asn Phe Gly
89 245 250 255
90 Asp Ser Asp Leu Val Ala Asn Gly Asn Ala Ala Lys Cys Tyr Pro Gln
91 260 265 270
92 Ile Ala Glu Cys Val Pro Ser Val Ser Ser Val Leu Phe Gly Ser Gln
93 275 280 285
94 Trp Ser Ala Glu Glu Ala Gly Asp Gln Val Lys Val Thr Leu Thr His
95 290 295 300
96 Thr Tyr Tyr Leu Pro Lys Gly Asp Ala Lys Thr Ser Gln Phe Leu Glu
97 305 310 315 320
98 Gln Ile Asp Ala Tyr Lys Arg Pro Ser Gln Val Ala Lys Glu Gln Arg
99 325 330 335
100 Lys Pro Lys Pro Arg Ser Lys Ser Ala Asp Lys Lys Pro Glu Glu Leu
101 340 345 350
102 Ser Val Thr Leu Val Glu Ala Tyr Thr Asp Val Phe Asp Asp Thr Gln
103 355 360 365
104 Val Glu Met Ile Asp Glu Val Thr Asn

```

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105      370      375
108 <210> SEQ ID NO: 3
109 <211> LENGTH: 30
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Artificially synthesized primer sequence
116 <400> SEQUENCE: 3
117 ggggaattca attaaaggca actactgcca 30
119 <210> SEQ ID NO: 4
120 <211> LENGTH: 41
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Artificially synthesized primer sequence
127 <400> SEQUENCE: 4
128 ctgtgaattc tgcaggatcc tttttttttt tttttttttt t 41
130 <210> SEQ ID NO: 5
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Artificially synthesized primer sequence
138 <400> SEQUENCE: 5
139 caactgggga gatgaacctt 20
141 <210> SEQ ID NO: 6
142 <211> LENGTH: 20
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Artificially synthesized primer sequence
149 <400> SEQUENCE: 6
150 ggtagcattt ggcagcgta 20
152 <210> SEQ ID NO: 7
153 <211> LENGTH: 22
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Artificially synthesized primer sequence
160 <400> SEQUENCE: 7
161 attgatggag tcttctgggt tg 22
163 <210> SEQ ID NO: 8
164 <211> LENGTH: 23
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Artificially synthesized primer sequence
171 <400> SEQUENCE: 8
172 ttggcattct taggtgttgt gtc 23

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/520,333

DATE: 01/13/2005

TIME: 17:18:02

Input Set : A:\082368-002100US.txt

Output Set: N:\CRF4\01132005\J520333.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date